

North American news

Congress wages peace battle

from Peter David

WASHINGTON
Congress is pressing ahead with legislation to set up a national academy for peace studies despite indications that President Reagan regards the move as too expensive.

State drops new campus plan

from P. E. Burke

TULSA
Opposition has forced Oklahoma legislators to compromise on a bill to set up a new state university here.

Reagan gains ally for cuts

by our North American editor

Some of the sweeping cuts in student grants and loans proposed by the Reagan administration were defended for the first time last week by one of America's leading university presidents.



Dr Derek Bok: wants aid for poor

Biochemist risks grant in protest

Another professor at Yale University has refused to comply with federal regulations requiring university researchers to account in detail for their use of government money.

Door opens for foreigners

from Martin Roth

TOKYO
The educational committee of Japan's ruling liberal democratic party has drawn up a bill designed to open the way for foreigners to become full professors at state-run universities.

Overseas news

China invests in Western technology

by Thomas Land

China's institutions of higher education are opening their doors to the West and buying a vast array of sophisticated teaching aids as well as specialist assistance.

Moves to cure monolingual myopia

from Geoff Maslen

MELBOURNE
Language and cultural awareness courses should be mandatory for certain professionals, according to a report to the commonwealth department of education.

Students plug in to Plato

from Craig Charney

JOHANNESBURG
Interest is growing rapidly in the use of computers in instruction at South African universities. A pilot project is under way at the University of the Western Cape, which caters for mixed-race students.



A dragon guards the state coffers against hungry students

Art gallery pictured

from Lindsay Wright

WELLINGTON
The 150th anniversary of the founding of New Zealand in 1840, may be marked by a new national art gallery. A cabinet subcommittee has been set up to consider plans for the 150th anniversary including a proposal for a national art gallery in Wellington.

Campaign against spending cuts as loans lose value

Students in Sweden's universities have been holding a week of action against further cuts in higher education spending.

When college entry is a phone call away

By the twenty-first century America's booming community colleges will have invested heavily in high-technology distance-learning courses.

Vice chancellor orders closure of campus

from Stephen Taylor

HARARE
The main Lusaka campus of the University of Zambia was closed by the administration last week after a week-long student boycott of classes.

Intelligence agency deputy resigns

Admiral Robert Inman resigned last week as deputy director of the Central Intelligence Agency.

The Times Higher Education Supplement
Important news for New Subscribers in the United States of America and Canada
New subscribers to The Times Higher Education Supplement in the U.S. and Canada can now take advantage of our special introductory rate of \$60 for a year's issues.

Professor Richards, however, said it was "ridiculous" to account in detail for his time in the way demanded by the government's A-21 form.

Admiral Robert Inman resigned last week as deputy director of the Central Intelligence Agency. Admiral Inman, who is taking a job in private industry, recently issued a controversial call for university scientists to take measures to prevent their discoveries falling into the hands of the Soviet Union.

At the same time students on a sympathy strike at the Kitwe campus in the northern copperbelt region returned to classes while studies at the school of medicine and nursing, also in Lusaka, were unaffected.

Wildlife course launched
Njala University College, a constituent college of University of Sierra Leone, is to launch a new two-year degree programme in applied ecology and wildlife biology.

BOOKS ENGINEERING Graphic images

The author has also decided to use Fortran for all program examples. Again this seems reasonable in view of the fact that most major graphics packages are accessible from Fortran.

every institution where graphics is taught. David Clark, of the University of London Audio-Visual Centre, provides an introduction to the potential of computer graphics in education.

A Practical Introduction to Computer Graphics by Ian G. Angell. Macmillan, £12.00 and £5.50.

An immediate attraction of Ian Angell's book is the range of attractive pictures it shows readers how to draw.

Angell has deliberately restricted his scope to vector graphics, the kind that can be generated on conventional incremental or XY plotters.

NEW PERGAMON TEXTBOOKS & REFERENCE WORKS IN ENGINEERING & MATERIALS SCIENCE & TECHNOLOGY

*Textbook Inspection Copies Available on 60 Days Approval

PRESSURE DIECASTING, Part Metals - Machines - Furnaces. B UPTON, Bahler-Ing (England) Ltd, UK. 165pp. 80 illustrations. 1982.

ANODIC OXIDATION OF ALUMINIUM & ITS ALLOYS. V F HENLY, Acorn Anodising Company Ltd, Middlesex, UK. 175pp. 1982.

WORKED EXAMPLES IN ELECTRICAL MACHINES & DRIVES. J HINDMARSH, UMIST, UK. 290pp. 120 illustrations. 1981.

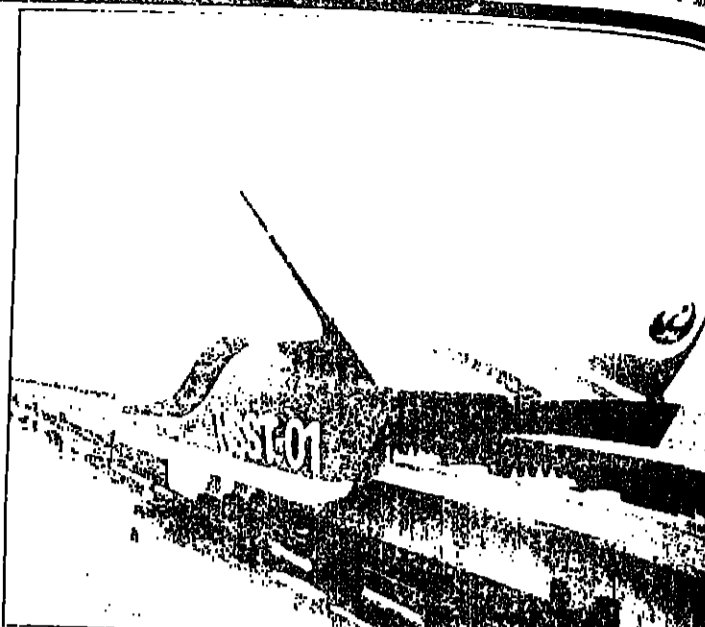
CERAMIC RAW MATERIALS. 2nd Revised Edition. W E Worrall, University of Leeds, UK. 120pp. 1982.

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Japan Air Lines vehicle INST-01, which uses controlled d.c. electronics for suspension and linear induction motors for propulsion. Illustration by E. Jayawant.

The sense of wonder returned. When a child is given a magnet, he quickly discovers that levitation is impossible, by trying to pick up a pin from a table.

It now seems that Earshaw's theorem, even if people knew it, has proved more of a challenge than a deterrent, and there is now a rich history of papers, patents and working systems that use magnetic forces to offset gravity.

Finally, Ken Knowlton of Bell Labs, one of the pioneers of computer animation, describes an approach to presenting the vast range of time-scales and spatial dimensions in the Universe in a way which would aid comprehension and insight.

Offsetting gravity

Magnetic Levitation for Rail Transport by R. G. Rhodes and B. E. Mulhall. Clarendon Press: Oxford University Press, £15.00.

Professor Rhodes of the University of Warwick and Dr Mulhall of the University of Surrey have concentrated on advanced transport systems using magnetic levitation.

There are a few omissions. There is a tenth method of suspension, but of little importance, and mostly in physics, such as the attempts to measure the charge on the quark, and experiments on the gravitational constant.

keep within the objectives of a series. From the evidence of Professor Rhodes's experiments at Warwick, this is clearly the technology that they know best.

Before this book appeared, the most important single reference to the literature survey by Geary, published in 1964 as a SIRA report, which concentrated on instrumentation applications. In only 126 pages, Jayawant brings the whole subject up to 1981, and writes at a level that should be accessible to all.

The development of instruments and their use from the late 19th to the early 1950s is covered in Volume 1 (ISBN: 0 253 51549 3).

History of architecture and design 1890-1930. Bertha Swinholtz (A36): prog 9, 10.

Mathematics: the evolution of the subject. Robert G. Coates (A101): prog 11.

Personality and Learning II. All depends on Your Point of View. (E30): prog 11.

NOTICE BOARD



Professor Richard Darwin Keynes, professor of physiology at Cambridge and great-grandson of Charles Darwin unveils a plaque in the new biological sciences building at University College, London on the centenary of Darwin's death.

Chair. Dr J. R. R. Jordan has been appointed, with effect from October 1, 1982, to a chair in biological statistics in the department of English statistics at the University of Stirling.

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Grants. The Queen's Foundation has awarded a grant of £10,000 to the University of Stirling for research into the effects of hormones on hippocampal metabolism in cultured arched cells in relation to anterograde amnesia.

The Council for Educational Technology's support for the National Diploma in Educational Technology has taken a new turn. From 1979, it has supported the diploma content of the NDEE in setting up a national network of centres for in-service, postgraduate level courses in educational technology.

Open University programmes May 1 to May 7. 24.00 The development of instruments and their use from the late 19th to the early 1950s.

problems of nuclear weapons development, 27 per cent of the cost of the studies from the side of the School of Peace Studies to support further research - £25,000 from the Landisbury House Trust for research into alternative defence.

UNIST. Instrumentation and Analytical Science - Professor G. E. Kirkwright, P. Payne and M. S. Beck - £27,000 from SERC as an initial grant for equipment following recognition of the department as a SERC Centre.

The Old Speck and Newport. The Saunterer Club for 1982 by Professor R. H. Little. Worcester College, Oxford. Is to be dedicated on April 17th, 1982.

"Eng Lit. or Literature in English?", a one day seminar to be held at the Cornerhouse Institute on May 8 from 10am to the Lehigh Room.

Wednesday May 5. B601. Photocopying, light, chemical change and life. Excited States Spectra and Lifetime (534): prog 4.

Friday May 7. B601. An introduction to statistics. Likelihood in Inference I (C17): prog 11.

Thursday May 6. B601. Social psychology. Maudsley Things (D33): prog 11.

Polytechnics continued

SHEFFIELD CITY POLYTECHNIC DEPARTMENT OF ECONOMICS AND BUSINESS STUDIES. PRINCIPAL LECTURER IN ECONOMICS. The successful candidate will be expected to make a major contribution to the development of economics as a member of a large, multi-disciplinary department.

PRINCIPAL LECTURER IN LAW. The successful candidate will be expected to make a major contribution to the development of law in the context of a large multi-disciplinary department. Salary will be at a point within the Principal Lecturer Scale - £11,898-£12,891 (bar) - £14,324.

LECTURER II IN BUSINESS STUDIES (Marketing or Economics). Applications are invited from candidates with a sound academic background in marketing and/or economics.

PLYMOUTH POLYTECHNIC Micro Electronics in Education Programme. TUTOR/LECTURER in ELECTRONICS AND CONTROL TECHNOLOGY. Salary: £8,462-£10,431 (under review).

Applications are invited for the above posts from graduates in Mechanical Engineering or allied disciplines. Industrial experience is essential, and some teaching experience is desirable.

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PORTSMOUTH POLYTECHNIC DEPARTMENT OF ACCOUNTING. TWO LECTURERS IN SENIOR LECTURERS IN ACCOUNTING. Applications are invited from graduates in Accounting or related disciplines.

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COVENTRY POLYTECHNIC DEPARTMENT OF ENGINEERING. LECTURER II SENIOR LECTURER IN DEPARTMENT OF SYSTEMS AND CONTROL. TEMPORARY LECTURER (3 Posts). These appointments are for one year only to replace members of staff leaving or retiring during the following departments:

PRESTON POLYTECHNIC Applications are invited for the following posts: Lecturer II in Computing (Two Posts). Candidates must have a degree in Computing Science or related discipline and must have either a higher qualification or equivalent practical experience involving the design and implementation of computing systems in a business or industrial environment.

IMMEDIATE ADVANCES £100 to £20,000. Written terms on request. Send CV to: Personnel Officer, Preston Polytechnic, Preston Road, Lytham, Lancashire, PO12 1JG. Tel: 07754 3111. Fax: 07754 3112. Closing date: 31st May 1982.

Colleges and Institutes of Technology

DUNDEE COLLEGE OF TECHNOLOGY LECTURESHIP (A) IN ECONOMICS. Applicants should be honours graduates, and preferably hold a higher degree. Teaching experience at undergraduate level and an active interest in research would be advantageous.

Colleges of Higher Education

MALVERN GIRLS' COLLEGE APPOINTMENT OF HEAD JANUARY 1984. The Governors invite applications for the post of Head of Malvern Girls' College on the retirement of Miss Veronica Owen who has held the position since 1968.

Athrofa Gogledd-dd Cymru The North E Wales Institute of higher education. PRINCIPAL LECTURER in Community Nursing (£11,298-£12,581 (bar) - £14,238). The person appointed will be responsible for District Nursing, Health Visitor and associated courses.

CHELMER Essex Institute of Higher Education. Senior Lecturer and Lecturer II in Computer Studies. Background in at least two of the following fields: real time programming, teleprocessing, database technology, information processing, systems methodology, programming methodology, systems programming techniques, computer architecture, computational theory and methods, computer graphics or techniques.

Lecturer II in Building Technology. Graduate or Chartered Builder/Building Surveyor required, with experience in science or building materials an advantage.

Lecturer II in Economics and Statistics (and Marketing). Experience of computer applications an advantage. Salary: Senior Lecturer: £9,624-£12,141 (bar at £11,289); Lecturer II: £8,462-£10,431.

Roehampton Institute. Courses offered by the Roehampton Institute of Higher Education are in combined studies leading to university level higher degrees.

EDGE HILL COLLEGE OF HIGHER EDUCATION. AN ASSOCIATE COLLEGE OF THE UNIVERSITY OF LANCASTER. Applications are invited from graduates who are trained teachers for three temporary posts (teaching during the Academic Year 1982-83) during the secondment of the permanent members of staff.

TEMPORARY LECTURERS II IN EDUCATION (TWO POSTS). Applicants for the first post must be able to teach Educational Studies including History of Education to B.Ed. (Hons) degree level and professional courses which prepare students to teach in primary schools.

TEMPORARY LECTURER II IN PHYSICAL EDUCATION. Applicants must be able to teach courses in the psychology of motor learning and to contribute to professional aspects of Physical Education.

THES Special Features for 1982. June 25 Computers in Higher Education. September 10 Higher Education in the Common Market. October 8 Academic Journals.

College of St. Mark & St. John. LECTURER IN CREATIVE DESIGN AND TECHNOLOGY. A temporary lecturer is required at the College of Higher Education for one year commencing September.

Roehampton Institute. LII IN ENVIRONMENTAL AND GEOGRAPHICAL STUDIES. The Institute seeks to appoint from 1 September, 1982, an Environmental Scientist to be responsible for developing Environmental Studies laboratory and teaching courses.

HULL COLLEGE OF HIGHER EDUCATION ACCOUNTANT. To provide professional accounting support to the College Finance Officer and the administration of the College.

LOTIAN REGIONAL COUNCIL DEPARTMENT OF EDUCATION NAPIER COLLEGE OF COMMERCE & TECHNOLOGY. SENIOR ADMINISTRATIVE OFFICER. Salary on Scale £9,999-£10,941. The main duties of the post will be to co-ordinate the day-to-day responsibilities of the main Administrative Sections of the College.

Colleges of Higher Education continued

GWENT COLLEGE OF HIGHER EDUCATION LECTURER 2 IN FACULTY OF EDUCATION AND COMBINED STUDIES. Applications are invited for a Lecturer 2 post in the SCHOOL OF SOCIAL/ENVIRONMENT STUDIES.

MANCHESTER THE ROYAL NORTHERN COLLEGE OF MUSIC SECRETARY. The Principal Secretary of the College is Mr. G. M. Vaughan, who is retiring in 1982. Any person who is interested in this post should apply to the Principal Secretary, Mr. A. A. Wainwright, at the College, 100, Portland Street, Manchester, M13 9PL. Telephone: 061 275 1111.

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LONDON ROYAL NATIONAL INSTITUTE FOR THE BLIND. CAREERS OFFICER/STUDENT ADVISER. There is a vacancy in the RNIB for an officer primarily responsible for the career development of students.

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Sheffield City of Education Department. Appointment of Project Director. The MEC is currently carrying out a major project in the area of continuing education.

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Courses

Royal Military College of Science, Shrivenham. Lecturers/Senior Lecturers Electrical and Control Engineering. The College is a residential establishment, running first degree and postgraduate CMAA courses, Army Staff courses and specialist courses, for both civilian and military students.

Professor Harris or Professor Skinner on Swindon (0783) 782651, extension 339 or 278. Candidates should have a first or second class honours degree or equivalent in electrical or electronic engineering or a closely related discipline.

For further details and an application form (to be returned by 21 May, 1982) to Civil Service Commission, Alton Link, Basingstoke, Hants RG22 1JG, or telephone Basingstoke (0256) 88561 (answering service operates outside office hours). Please quote ref: SF/1908.

Miscellaneous

USPG THE UNITED SOCIETY FOR THE PROPAGATION OF THE GOSPEL. BURSARIES SECRETARY MISSION PROGRAMMES DIVISION. We seek a graduate to run the Society's scheme sponsoring people from overseas churches for training outside their own countries.

REMINDER COPY FOR CLASSIFIED ADVERTISEMENTS IN THE T.H.E.S. SHOULD ARRIVE NOT LATER THAN 10.00 AM MONDAY PRECEDING THE PUBLICATION.

DURHAM UNIVERSITY. Mathematics Department. SERC STUDENTSHIP. Applications are invited for the post of Research Assistant in the SERC project in the area of 'Cognitive Functioning in the Development of Language'.

FIFE UNIVERSITY OF ST ANDREWS. Department of Psychology. Applications are invited for the post of Research Assistant in the SERC project in the area of 'Cognitive Functioning in the Development of Language'.

KENT UNIVERSITY OF AT CANTERBURY. FACULTY OF SOCIAL SCIENCES. Applications are invited for the post of Research Assistant in the SERC project in the area of 'Cognitive Functioning in the Development of Language'.

OXFORD. Applications are invited for the post of Research Assistant in the SERC project in the area of 'Cognitive Functioning in the Development of Language'.

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